

Contents

24	Mixture preparation - injection	1
1	Safety precautions and rules for cleanliness	1
1.1	General notes on self-diagnosis	1
1.2	Safety precautions when using testers and measuring instruments during a road test	1
1.3	Rules for cleanliness when working on the injection system	1
1.4	Safety precautions when working on the fuel supply system	2
1.5	Checking vacuum system	2
2	Injection system	4
2.1	Technical data	4
2.2	Overview of fitting locations - injection system	4
2.3	Exploded view - air cleaner	15
2.4	Removing and installing air filter element	17
2.5	Removing and installing air mass meter G70	20
2.6	Intake manifold (magnesium) - exploded view	20
2.7	Intake manifold (plastic - gradual introduction from model year 2009 onwards) - exploded view	36
2.8	Removing and installing fuel pressure sender G247	54
2.9	Checking fuel pressure and residual pressure (up to high-pressure pump)	55
2.10	Exploded view - high-pressure pump	60
2.11	Removing and installing high-pressure pump	62
2.12	Overview - Lambda probes	64
2.13	Removing and installing Lambda probe before catalytic converter G39 and Lambda probe after catalytic converter G130 (cylinder bank 1)	65
2.14	Removing and installing Lambda probe 2 before catalytic converter G108 and Lambda probe after catalytic converter G131 (cylinder bank 2)	67
3	Engine control unit	69
3.1	Wiring and component check with test box V.A.G 1598/42	69
3.2	Removing and installing engine control unit J623	70
28	Ignition system	74
1	General notes and safety precautions	74
1.1	General notes on ignition system	74
2	Servicing ignition system	75
2.1	Test data	75
2.2	Exploded view - ignition system	75
2.3	Removing and installing ignition coils	76
2.4	Removing and installing knock sensors	78